

# - RD-7103 - AUDIO/VIDEO RECEIVER

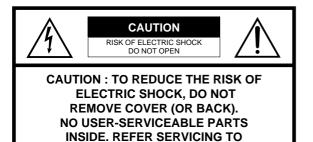
# Introduction

### **UNPACKING AND INSTALLATION**

### Congratulations on Your Purchase!

Your new high fidelity receiver is designed to deliver maximum enjoyment and years of trouble free service. Please take a few moments to read this manual thoroughly. It will explain the features and operation of your unit and help ensure a trouble free installation. Please unpack your unit carefully. We recommend that you save the carton and packing material. They will be helpful if you ever need to move your unit and may be required if you ever need to return it for service. Your unit is designed to be placed in a horizontal position and it is important to allow at least two inches of space behind your unit for adequate ventilation and cabling convenience.

To avoid damage, never place the unit near radiators, in front of heating vents, in direct sunlight, or in excessively humid or dusty locations. Connect your complementary components as illustrated in the following section.



QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

### Caution : Do not block ventilation openings or stack other equipment on the top.

### FOR U.S.A.

■ Note to CATV System Installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

### **FCC INFORMATION**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### Caution regarding placement (Except for U.S.A. and Canada)

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) equal to, or greater than, shown below.



Left and right panels: 5 cm Rear panel: 10 cm Top panel: 20 cm

### READ THIS BEFORE OPERATING YOUR UNIT

FOR U.S.A. AND CANADA .....120 V

#### FOR YOUR SAFETY

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only.

Observe all safety precautions for use of a polarized AC plug. However, some products may be supplied with a non polarized plug.

CAUTION : To prevent electric shock, match wide blade of plug to wide slot, insert fully.

### 

### FOR YOUR SAFETY

Units shipped to Australia are designed for operation on 240 V AC only.

To ensure safe operation, the three-pin plug supplied must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring. Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth.

Improper extension cords are a major cause of fatalities. The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

PAN-EUROPEAN UNIFIED VOLTAGE

All units are suitable for use on supplies 230-240 V AC.

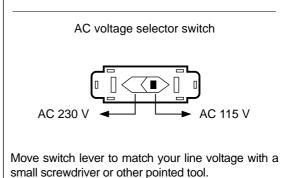
FOR OTHER COUNTRIES ..... 115 V/230 V

### FOR YOUR SAFETY

Units shipped to countries other than the above countries are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this switch.

### AC VOLTAGE SELECTION

This unit operates on 115/230 V AC. The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.



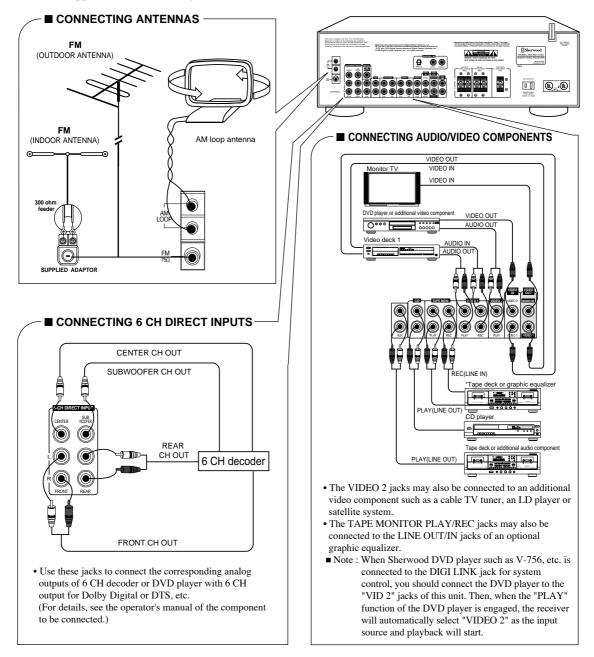
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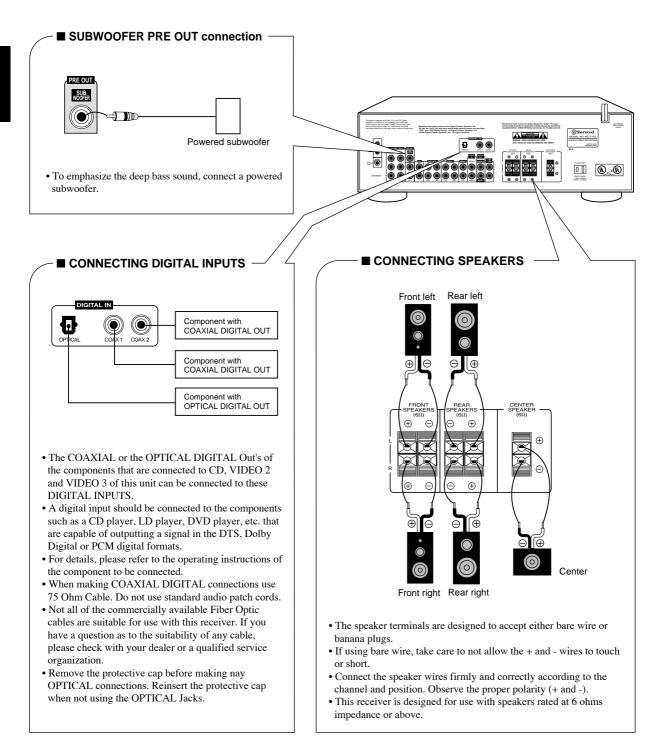
### Introduction

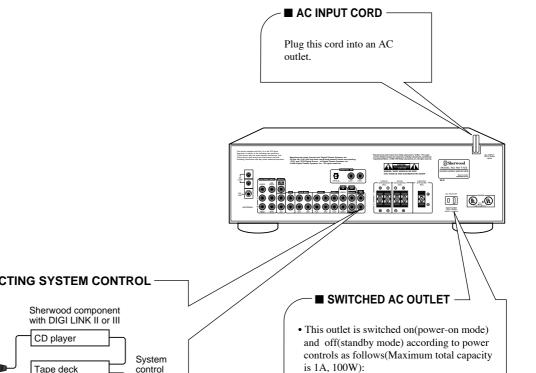
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# System Connections

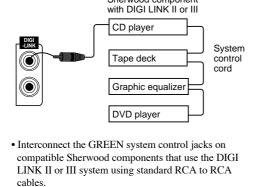
- When making system connections, please be certain the AC cord is not plugged into an AC outlet.
- When making connections between components, please be sure to connect the white RCA plugs to the L(left) and the red RCA plugs to the R(right) jacks respectively.
- Change the position of the FM indoor antenna until you get the best reception of your favorite FM stations.
- A 75  $\Omega$  outdoor FM antenna may be used to further improve the reception. Disconnect the indoor antenna before replacing it with the outdoor one.
- Place the AM loop antenna as far as possible from the receiver, TV set, speaker cords and the AC input cord and set it to a direction for the best reception.
- If the reception is poor with the AM loop antenna, an AM outdoor antenna can be used in place of the AM loop antenna.
- Make connections firmly and correctly. If not, it can cause loss of sound, noise or damage to the receiver.
- If the electricity fails or the AC input cord is left unplugged for more than 2 weeks, the memorized contents will be cleared. Should this happen, memorize them again.



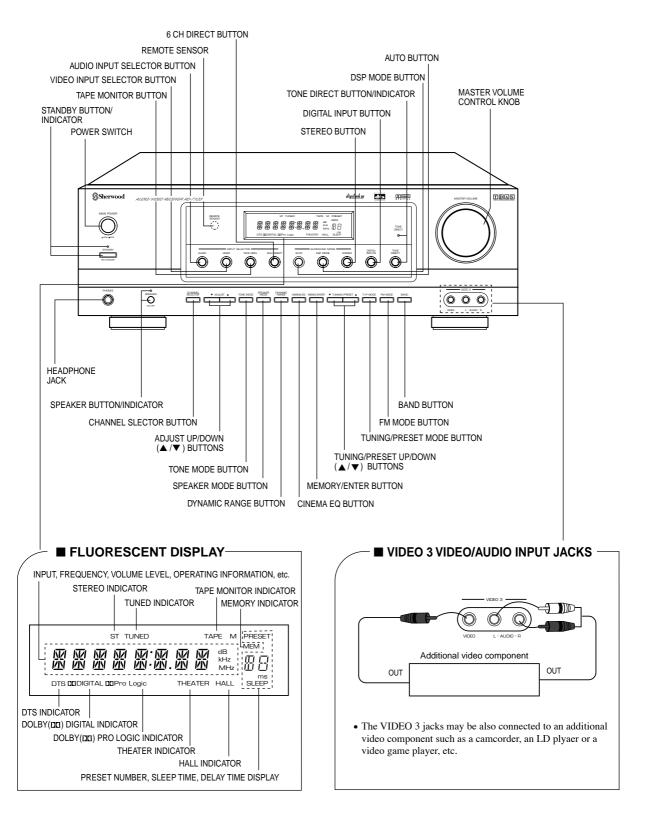




### ■ CONNECTING SYSTEM CONTROL

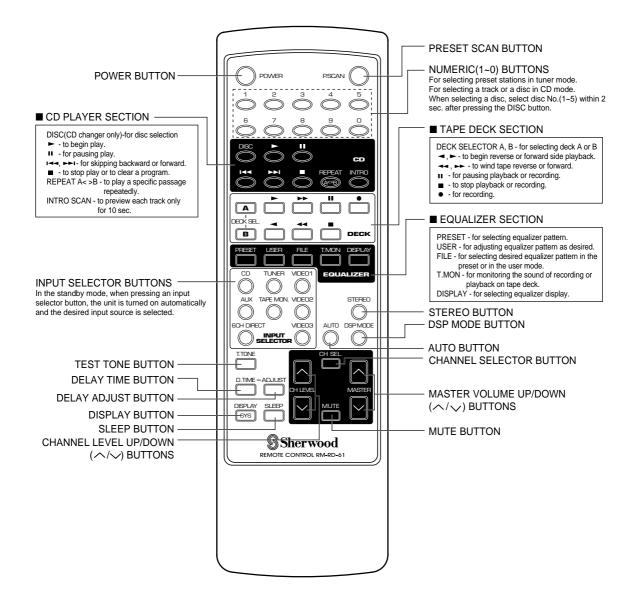


# Front Panel Controls



# DIGI LINK III System Remote Controls

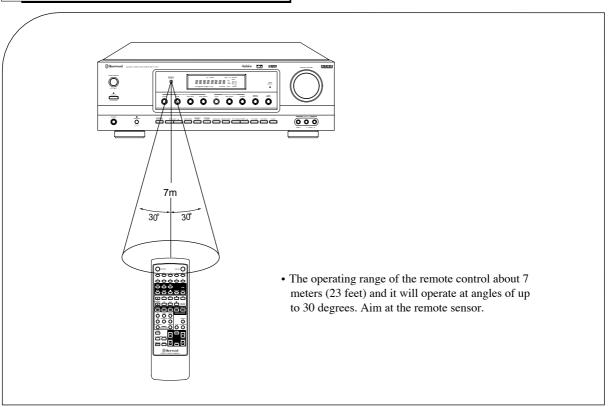
- All Sherwood components bearing the DIGI LINK (II or III) logo can be used with this remote control.
- To control associated Sherwood Digi Link components, you must first make the DIGI LINK connections between the components.
- With the Sherwood Digi Link III system, pressing a transport control key such as PLAY, on a Sherwood CD player or tape deck will automatically engage that input on the receiver and then PLAY will start.

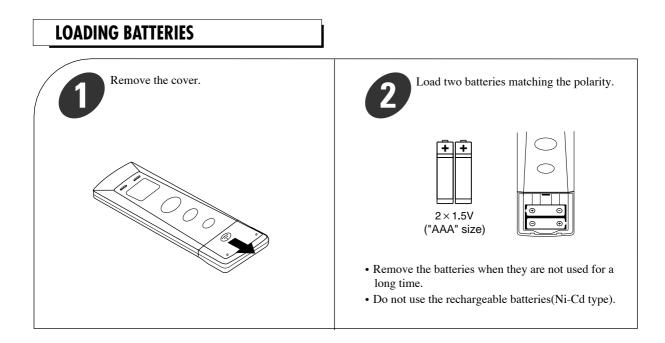


#### Notes:

- Some functions for a CD player, tape deck or equalizer may not be available.
- For details about functions, refer to the operating instructions of each component.

# **REMOTE CONTROL OPERATION RANGE**





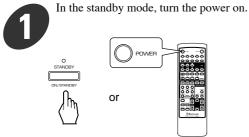
# **Operations**

# LISTENING TO A PROGRAM SOURCE Before operation

• Enter the standby mode.



- The STANDBY indicator lights up. This means that the receiver is not disconnected from the AC mains and a small amount of current is retained to support the memorized contents and operation readiness.
- To switch the power completely off, push the POWER switch again.
- The power is cut off and the STANDBY indicator goes off.



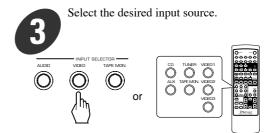
- Each time the STANDBY button on the front panel or the POWER button on the remote control is pressed, the receivers turns on to enter the operating mode or off to enter the standby mode.
- In the standby mode, if the INPUT SELECTOR button is pressed, the receiver turns on automatically and the desired input is selected.



Switch the speakers on.



- The SPEAKER indicator lights up and sound can be heard from the speakers connected to the speaker terminals.
- When using headphones for private listening, press the SPEAKER button again to switch the speakers off.



- Each time the "AUDIO" button is pressed, the input source changes as follows;
  - $\rightarrow \text{TUNER} \rightarrow \text{CD} \rightarrow \text{AUX}$ (frequency display)
- Each time the "VIDEO" button is pressed, the input source changes as follows;
  - $\rightarrow$  VIDeo 1  $\rightarrow$  VIDeo 2  $\rightarrow$  VIDeo 3 -
- When the TAPE MONITOR button is set to on so that "TAPE M" indicator lights up, other inputs can not be heard from the speakers.

To listen to an input source other than TAPE MONITOR, be sure to set the TAPE MONITOR button to off.

### **TAPE MONITOR function**

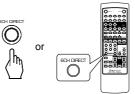
You can connect either a tape deck or a graphic equalizer to the receiver's TAPE MONITOR jacks.

To listen to the component connected to these jacks, set the TAPE MONITOR button to on.

If you connect a 3-head tape deck, you can monitor the actual recording, not the source sound.

For further details, refer to the operating instructions of the component connected.

■ When selecting the 6 CH DIRECT as desired,



- 6-DIRECT is displayed and the 6 separate analog signals from a decoder or DVD player connected to this unit will be heard. You can use the tone controls and volume control to adjust the signal. (If the TAPE MONITOR button is set to on, it will be automatically set to off.)
- To cancel the 6 DIRECT function, press the 6 CH DIRECT button again or select another desired input source.
- These 6 separate analog signals can be heard, only. They cannot be recorded.

# When CD or VIDEO1~3 is selected as an input source



Select the digital or analog input connected as desired.



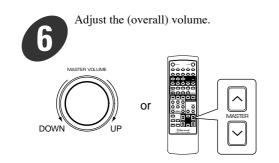
• Each time this button is pressed, the corresponding input is selected as follows ;

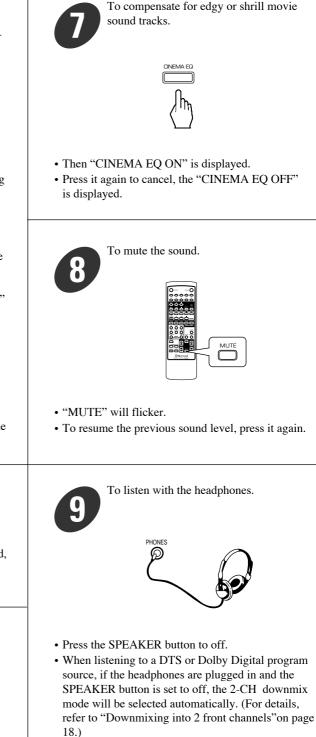
- To listen to a DTS or Dolby Digital program source in the 2-CH downmix mode(the stereo mode), the corresponding digital input must be selected. (For details, refer to "Downmixing into 2 front channels" on page 18.)
- Notes :
- When the selected optical or coaxial digital input is not connected, the selected digital input display flickers, indicating the lack of sound. (Refer to "ENJOYING SURROUND SOUND" on page 15.)
- The sound from the component connected to the selected digital input can be heard regardless of the selected input source.

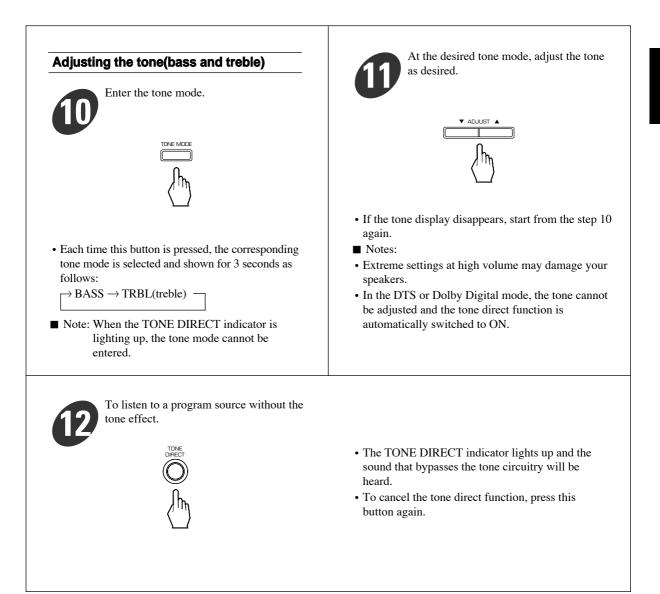


Operate the selected component for playback.

• To playback the program sources in surround sound, refer to "ENJOYING SURROUND SOUND" on page 15.







### **SURROUND SOUND**

• This receiver incorporates a sophisticated Digital Signal Processor that allows you to create optimum sound quality and sound atmosphere in your personal Home Theater.

### Surround modes

This unit has 6 different surround modes to allow you to enjoy surround sound with various program sources: DTS, DOLBY DIGITAL, DOLBY PRO LOGIC, DOLBY VIRTUAL, THEATER, HALL.

DTS (Digital Theater System) : Allows you to enjoy 5.1(or 6) discrete channels of high quality digital audio from DTS program sources bearing the "DISTATION TRADEWORK SUCH AS LASS DVD,

compact discs, etc., DTS Digital Surround delivers up to 6 channels of transparent audio (which means identical to the original masters) and results in exceptional clarity throughout a true 360° sound field.

• Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942 and other world-wide patents issues and pending.

"DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc. © 1996 Digital Theater Systems, Inc. All rights reserved.

Note : The DTS program sources should be played back in the DTS mode. If not, no sound or the sound like continuous noise will be heard.

**DOLBY DIGITAL :** Allows you to enjoy up to 5.1 channels of digital surround sound from Dolby Digital program sources bearing the "DIGITAL" trademark such as laser discs, DVD's, and DTV broadcasts.

Dolby Digital provides better sound quality, improved dynamic range and greater sense of direction, compared with conventional Dolby surround. Now, you are able to enjoy real Home Theater sound in your home.

**DOLBY PRO LOGIC :** This unit incorporates the Dolby Pro Logic Surround Decoder which performs the same functions for home playback as it does in the movie theaters. Use with Dolby Pro Logic program sources bearing the " DOLBY SURROUND " trademark such as video cassette tapes, laser discs or TV broadcasts.

- **DOLBY VIRTUAL :** Dolby Virtual employs sophisticated digital processing to create the illusion of five "phantom" speakers. Therefore, this mode allows you to experience a realistic multichannel experience from any program source, through just a single pair of front speakers.
  - Manufactured under licence from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. © 1992-1997 Dolby Laboratories. All rights reserved.
- **THEATER :** This mode provides the effect of being in a movie theater when watching a movie source that has a stereo sound track.
- **HALL :** This mode provides the ambience of a concert hall for classical music sources such as orchestral, chamber music or an instrumental solo.
- When the 6 CH DIRECT INPUTS are connected to a 6 CH decoder or DVD player for a surround sound such as Dolby Digital or DTS, etc., you can enjoy the corresponding surround sound, too. (For details, see the operator's manual of the component to be connected.)

### Delay time

When the center speaker or the rear speakers is(are) closer to the listener than the front speakers, the sound from the center speaker or the rear speakers can arrive at the listener's ears earlier than the sound from the front speakers.

In this case, the imaging is not as sharp and stable as it could be.

For audible improvement, the sound from center speaker can be delayed with the center delay time setting to synchronize the sound from the front and the center speakers and the sound from the rear speakers can be also delayed with the rear delay time setting so that the sound from the front and the rear speakers will be heard at the same time.

The optimum delay time will be different according to the room size and the acoustic properties.

• It is adjustable in the surround modes except for the normal stereo mode. (For details, refer to "In the surround modes except for the DTS, normal stereo and Dolby Virtual modes, adjusting delay times of the speakers" on page 18)

### Speaker placement

To obtain the best surround sound effect in your home, place the speakers as follows; • Front speakers: Place each front speaker about 1m (40") from the TV set.

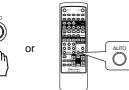
- Center speaker: Place the center speaker either above or below the TV set to assure good visualization of center channel program.
- Rear speakers: Place the rear speakers approximately 1m above the ear level of a seated listener on the direct left and right of them or slightly behind.
- Subwoofer: Reproduces powerful deep bass sounds. Place a powered subwoofer anywhere in the front as desired.
- The ideal surround system needs all the speakers listed above. For optimum reproduction of DTS encoded material, DTS suggests that all speakers, front, center and rear, should be capable of full range reproduction.
- To enjoy surround sound best, the speakers to be connected are as follows;

Modes	DTS	Dolby Digital	Dolby Pro Logic	Dolby Virtual	Other Surround	Stereo	6 CH DIRECT
Front	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Center	Yes	Yes	Yes	-	Yes	-	Yes
Rear	Yes	Yes	Yes	-	Yes	-	Yes
Subwoofer	Yes	Yes	Optional	-	Optional	Optional	Yes

Note: To avoid interference with the TV picture, use only magnetically shielded center and front speakers.

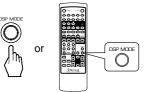
### **ENJOYING SURROUND SOUND**

- Surround sound effect will not work properly if the signal passes through a graphic equalizer. Please refer to your equalizer operating instructions for guidance on switching off (or defeating) the equalizer.
  - Select the desired surround mode. ■ When selecting the DTS or Dolby Surround mode.



- When playing program sources bearing the "
- When playing Dolby Digital program sources encoded into the 2 channel format, the Dolby Pro Logic mode or the Dolby Digital mode is automatically selected to according to the encoding process. (In case the Dolby Digital mode is automatically selected to, pressing the AUTO button allows this unit to be switched to the Dolby Pro Logic mode.)
- To enjoy the DTS or Dolby Digital mode, be sure that the program source and the corresponding digital input are selected correctly. If not, no sound will be heard.

When selecting a surround mode among THEATER, HALL and DOLBY VIRTUAL modes.



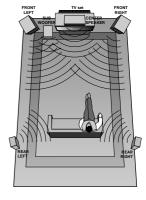
• Each time the DSP MODE button is pressed, the surround mode changes as follows;

```
\rightarrow THEATER \rightarrow HALL \rightarrow DOLBY VIRTUAL -
```

- Playing DTS or Dolby Surround program sources (bearing the "Context", "DOLDER") or the "DOLDER SURROUND" trademark) in THEATER or HALL mode will produce better surround effects.
- When the 6 CH DIRECT is selected as an input source, the surround mode cannot be selected.
- To cancel the surround mode for normal stereo operation.







### Adjusting the speaker settings

- Adjust the settings of front, center ,rear speakers and subwoofer connected.
- If the speaker setting is adjusted to "S", the low range bass sound of the channel(s) is redirected to the subwoofer or the front channels and if the speaker setting is adjusted to "N", the sound of the channel(s) is redirected to other channels.



Press the SPEAKER MODE button for more than 2 seconds to enter the frontcenter-rear speaker mode.



- The front-center-rear speaker setting is displayed.
- When the SPEAKER button is set to off, the 6 CH DIRECT is selected as an input source or "ANALOG" is selected as signal input in the stereo mode, the speaker mode function cannot be available.



Memorize the desired speaker setting while it is displayed.



- The desired speaker setting is memorized and the receiver enters the subwoofer mode.
- If the speaker setting display disappears, start again from step 2 above.



Memorize the subwoofer setting while it is displayed.



• If the subwoofer setting display disappears, start again from step 2 above.



Select the desired speaker setting.



• Each time this button is pressed, one of 11 different speaker settings is selected and displayed for 8 seconds as follows;

FL--CS--RS, FL--CL--RS, FL--CL--RL,

- FL--CL--RN, FL--CS--RL, FL--CN--RL,
- FL--CS--RN, FL--CN--RS, FS--CS--RS,

FS--CS--RN and FS--CN--RS

- In the displays, F stands for Front, C for Center, R for Rear, L for Large, S for Small and N for None.
- When judging whether a speaker is Large or Small, please note that a standard large speaker has a cone size larger than 12 cm(5 inches).
- The following speaker settings cannot be selected. Front :Small, Center : Large and Rear : Large(FS--CL--RL) or Center : None and Rear : None(CN--RN) setting.



Select the desired subwoofer setting.



• Each time this button is pressed, the subwoofer setting changes and is displayed for 8 seconds as follows;

SUB W(oofer) -- Y(es): When using a powered ↓ subwoofer. SUB W(oofer) -- N(o) : When not using a

powered subwoofer.

• If the front speaker is set to "S", the subwoofer is automatically set to "Y".





• Each time this button is pressed briefly, the frontcenter-rear speaker or subwoofer setting is displayed.

## Adjust the level of the selected channel Adjusting each channel level as desired. Select the desired channel. or or CHIEVE CH SEL • If the channel display disappears, start from the · Each time this button is pressed, the corresponding channel is selected and displayed for 3 seconds as above step 7 again. follows: Repeat the above steps 7 and 8 to • When it is in the normal stereo or Dolby Virtual adjust the other channel levels. mode, or the speaker setting is "N", center, rear or subwoofer channel will not be selected. Repeat steps 7 to 9 in "Adjusting each In Dolby Digital or Dolby Pro Logic channel level" until the sound level of each speaker is heard to be equally loud. • In these modes, the volume level of each channel can be adjusted easily with the test tone function. Enter the test tone mode. Cancel the test tone function. T. TONE T. TONE • The test tone will be heard from the speaker of each channel for 2 seconds as follows; $\begin{array}{c} \rightarrow \text{Front Left} \rightarrow \text{Center} \rightarrow \text{Front Right} \\ - \\ \text{SUBwoofer} \leftarrow \text{Rear Left} \leftarrow \text{Rear Right} \leftarrow \end{array}$ • Speakers set to "N" are not available and will not be heard.

# In the surround modes except for the DTS, normal stereo and Dolby Virtual modes,

- When the distances from the prime listening position to front left, center, front right, rear left and rear right speakers are same, the basic settings are as follows according to the surround modes;
  - -In the Dolby Digital mode
  - Center delay time : 0 ms, Rear delay time : 0 ms -In the Dolby Pro Logic, Theater and Hall modes Rear delay time : 15 ms
- If the center or the rear speaker(s) is(are) not at the same distance from the prime listening position as the front speakers, increase or decrease the center delay time by 1 ms for every about 30 cm(1 foot) it is closer or farther away and increase or decrease the rear delay time by 5 ms for every about 1~1.5 m(3~5 feet) it is closer or farther away.



Check the delay time to be adjusted.



- The delay time will be displayed for 5 seconds.
- Only in the Dolby Digital mode, the center delay time can be adjusted and the corresponding delay time is displayed.
- In case of playing the Dolby Digital program sources in the Theater or Hall mode, the center delay time as well as the rear delay time can be adjusted as they are done in the Dolby Digital mode.



In Dolby Digital mode, repeat the above steps 13 and 14 to adjust the rear delay time.

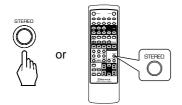
• Each time this button is pressed, the delay time changes in regular intervals.

Adjust the delay time.

• If the delay time disappears, start from the step 13 again.

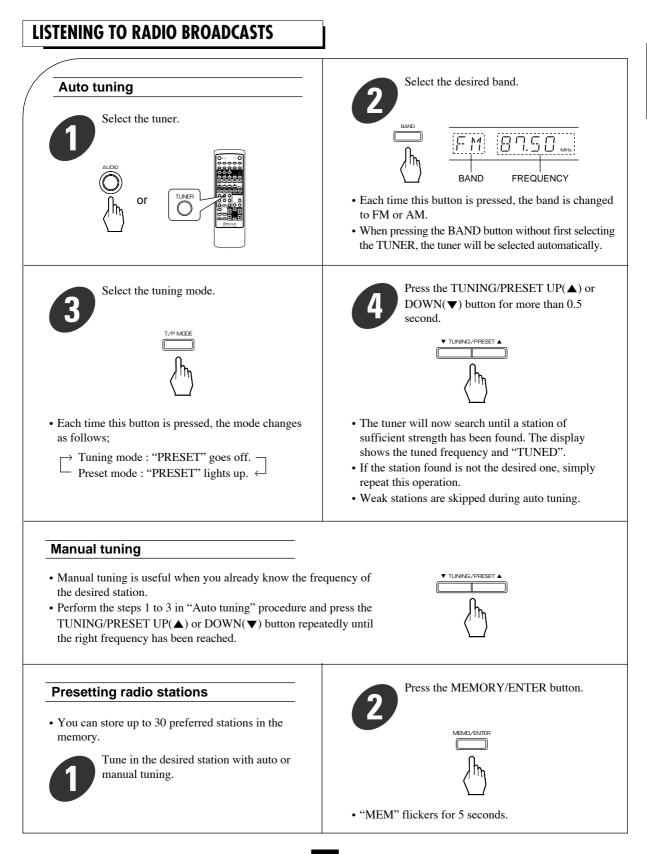
### Downmixing into 2 front channels

- Allows the multi-channel DTS or Dolby Digital signal to be reproduced through only two speakers or through headphones.
- When playing the DTS or Dolby Digital program sources, press the STEREO button.



• "ST" and the DTS or Dolby Digital indicators light up, meaning it enters the 2-CH downmix mode, and then the 5 discrete channels(front L, center, front R, rear L and rear R) are mixed down into 2 front channels.

- To cancel the 2-CH downmix mode, select the desired surround mode.
- When play is stopped, interrupted, etc., the 2-CH downmix mode is not canceled even though "ST" and the DTS or Dolby Digital indicators go off.
- If the headphones are plugged and the SPEAKER button is set to off while playing the DTS and Dolby Digital program sources, it will enter the 2-CH downmix mode automatically(but only the DTS or Dolby Digital indicator lights up still) and if the headphones are unplugged and the SPEAKER button is set to on in the 2-CH downmix mode, it will return to the previous mode.





Select the desired preset number (1~30) and press the MEMORY/ENTER button.

• When using the NUMERIC buttons on the remote control.

Examples)

For "3":  $\bigcirc$ within 2 second For "15":  $\bigcirc$ 

- The station has now been stored in the memory.
- When using the NUMERIC buttons, the station is stored automatically without pressing the MEMORY/ENTER button.
- A stored frequency is erased from the memory by storing another frequency in its place.
- If "MEM" goes off, start again from step 2 above.

### Tuning to preset stations



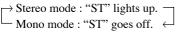
After selecting the tuner as an input source, select the preset tuning mode.



• Then "PRESET" lights up.

### Listening to FM stereo broadcasts

- While listening to FM broadcasts.
- Each time this button is pressed, the FM mode changes as follows;



• When FM stereo broadcasts are poor because of weak broadcast signals, select the FM mono mode to reduce the noise, FM broadcasts are then reproduced in monaural sound.



Repeat the above steps 1 to 3 to memorize other stations.

### ■ MEMORY BACKUP FUNCTION

The following items, set before the receiver is turned off, are memorized.

- INPUT SELECTOR settings
- · Surround mode settings
- Preset stations,etc.
- Note : If the electricity fails or the AC input cord is disconnected for more than 2 weeks, all memorized functions will be lost. Please enter them into memory, again.



Select the desired preset number.



• When using the NUMERIC buttons on the remote control.

Examples)



• When selecting the desired preset number with the NUMERIC buttons, the desired preset station will be tuned to automatically without first selecting the preset tuning mode.

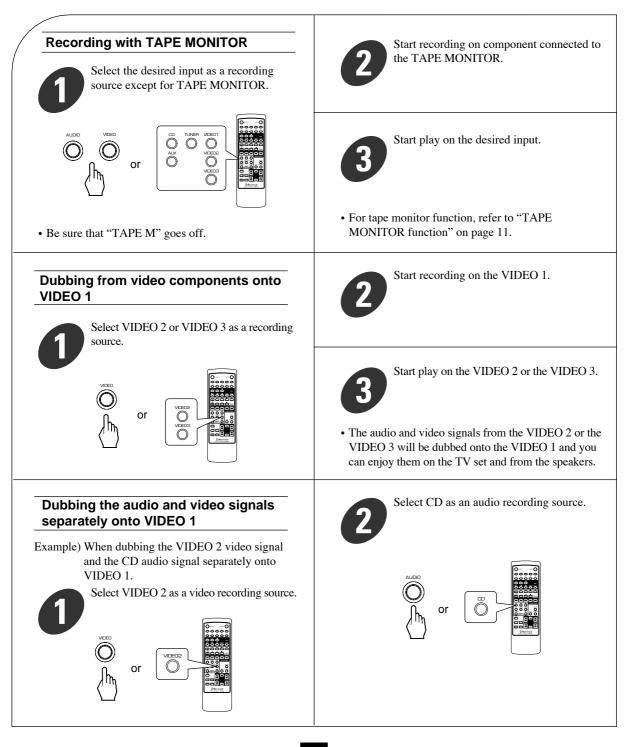
### Scanning preset stations in sequence



- The receiver will start scanning the stations in the preset sequence and each station is received for 5 seconds.
- At the desired station, press this button again to stop scanning.

### RECORDING

- The analog signals from the 6 CH DIRECT inputs as well as the digital signals from the coaxial or optical digital input can be heard but cannot be recorded.
- The volume and tone (bass, treble) settings have no effect on the recording signals.



Start recording on the VIDEO 1.



Start play on the VIDEO 2 and the CD respectively.

• The audio signal from the CD and the video signal from the VIDEO 2 will be dubbed and you can enjoy them on the TV set and from the speakers.

Note : Be sure to observe the order of the above steps 1 and 2.

# **OTHER FUNCTIONS**

### Compressing the dynamic range (Dolby Digital mode only)

• This function compresses the dynamic range of previously specified parts of the Dolby Digital sound track(with extremely high volume) to minimize the difference in volume between the specified and non-specified parts.

This makes it easy to hear all of the sound track when watching movies at night at low levels.



• Each time this button is pressed, the mode changes and disappears in 3 seconds as follows:

DYNAmic 0.0 : Off ↓ DYNAmic 0.5 : Low compression ↓ DYNAmic 1.0 : High compression

In some Dolby Digital software, this function may not be available.

### Operating the sleep timer

- The sleep timer allows the system to continue to operate for a specified period of time before automatically shutting off.
- To set the receiver to automatically turn off after the specified period of time.

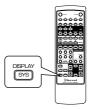


Each time this button is pressed, the sleep time changes and disappears in 3 seconds as follows;
 → 10 → 20 → 30 → 60 → 90 → OFF →

```
Unit : minutes
```

- While operating the sleep timer, "SLEEP" lights up.
- When the sleep time is selected, all display panels of Sherwood components connected by the DIGI LINK III are dimly lit.

# Adjusting the brightness of the fluorescent displays



• Each time this button is pressed, the brightness of all fluorescent displays of Sherwood components connected by the DIGI LINK III changes together as follows;

 $\rightarrow$  ON  $\rightarrow$  dim  $\rightarrow$  OFF -

• In the display OFF mode, pressing any button will restore the display ON mode.

# Troubleshooting Guide

If a fault occurs, run through the table below before taking your receiver for repair.

If the fault persists, attempt to solve it by switching the receiver off and on again. If this fails to resolve the situation, consult your dealer. Under no circumstances should you attempt to repair the receiver yourself. This could void the warranty.

PROBLEM	POSSIBLE CAUSE	REMEDY
No power	<ul> <li>The AC input cord is disconnected.</li> <li>Poor connection at AC wall outlet or the outlet is dead or off.</li> </ul>	<ul><li>Connect the cord securely.</li><li>Check the outlet using a lamp or another appliance.</li></ul>
No sound	<ul> <li>The speaker wires are disconnected.</li> <li>The master volume is adjusted too low.</li> <li>The MUTE button on the remote control is pressed to ON.</li> <li>Speakers are not switched on.</li> <li>Incorrect selection of the input source.</li> <li>Incorrect connections between the components.</li> </ul>	<ul> <li>Check the speaker connections.</li> <li>Adjust the master volume.</li> <li>Press the MUTE button to cancel the muting effect.</li> <li>Press the SPEAKER button to ON.</li> <li>Select the desired input source correctly.</li> <li>Make connections correctly.</li> </ul>
No sound from the rear speakers	<ul> <li>Surround mode is switched off(normal stereo mode).</li> <li>Master volume and rear level are too low.</li> <li>A monaural source is used.</li> <li>Rear speaker setting is "N".</li> </ul>	<ul> <li>Select a surround mode.</li> <li>Adjust master volume and rear level.</li> <li>Select a stereo or surround source.</li> <li>Select the desired rear speaker setting.</li> </ul>
No sound from the center speaker	<ul> <li>Surround mode is switched off(normal stereo mode).</li> <li>Center speaker setting is "N".</li> <li>Master volume and center level are too low.</li> </ul>	<ul> <li>Select the desired surround.</li> <li>Select the desired center speaker setting.</li> <li>Adjust master volume and center level.</li> </ul>
Stations cannot be received	<ul> <li>No antenna is connected.</li> <li>The desired station frequency is not tuned in.</li> <li>The antenna is in wrong position.</li> </ul>	<ul> <li>Connect an antenna.</li> <li>Tune in the desired station frequency.</li> <li>Move the antenna and retry tuning.</li> </ul>
Preset stations cannot be received	<ul> <li>An incorrect station frequency has been memorized.</li> <li>The memorized stations are cleared.</li> </ul>	<ul><li>Memorize the correct station frequency.</li><li>Memorize the stations again.</li></ul>
Poor FM reception	<ul> <li>No antenna is connected.</li> <li>The antenna is not positioned for the best reception.</li> </ul>	<ul><li>Connect an antenna.</li><li>Change the position of the antenna.</li></ul>
Continuous hissing noise during FM reception, especially when a stereo broadcast is received.	• Weak signals.	<ul><li>Change the position of the antenna.</li><li>Install an outdoor antenna.</li></ul>
Continuous or intermittent hissing noise during AM reception, especially at night.	• Noise is caused by motors, fluorescent lamps or lightning, etc.	<ul><li>Keep the receiver away from noise sources.</li><li>Install an outdoor AM antenna.</li></ul>
Remote control unit does not operate.	<ul><li>Batteries are not loaded or exhausted.</li><li>The remote sensor is obstructed.</li></ul>	<ul><li> Replace the batteries.</li><li> Remove the obstacle.</li></ul>
Other system components do not react to remote control commands.	<ul> <li>DIGI LINK connections are not made properly.</li> </ul>	Make proper DIGI LINK connections.

# **Specifications**

### ■ AMPLIFIER SECTION

- Power output, stereo mode, 6 $\Omega,$ THD 0.2%, 40 Hz~20 kHz	
• Total harmonic distortion, 6 Ω, 95 W, 1 kHz	
Intermodulation distortion	
60 Hz : 7 kHz= 4 : 1 SMPTE, 6 Ω, 95 W	
• Input sensitivity, $47 \text{ k}\Omega$	
Line (CD, TAPE, VIDEO)	
• Signal to noise ratio, IHF "A" weighted Line (CD, TAPE, VIDEO)	ar co
<ul> <li>Frequency response Line (CD, TAPE, VIDEO), 20 Hz~50 kHz</li> </ul>	±0 dB -3 dB
• Output level	
TAPE REC, 2.2 k $\Omega$	200 mV
PRE OUT(Front, Center, Rear, Subwoofer), 1 kΩ	
Bass/Treble control, 100 Hz/10 kHz	$\pm 10 \text{ dB}$
Surround mode, only channel driven	
Front power output, 6 $\Omega$ , 1 kHz, THD 0.7 %	
Center power output, 6 $\Omega$ , 1 kHz, THD 0.7 $\%$	
Rear power output, 6 $\Omega$ , 1 kHz, THD 0.7 $\%$	
■ DIGITAL AUDIO SECTION	
Sampling frequency	
• Digital input level	
Coaxial, 75 $\Omega$	
Optical, 660 nm	
■ FM TUNER SECTION	
Tuning frequency range	
• Usable sensitivity, THD 3%, S/N 30 dB	
• 50 dB quieting sensitivity, mono/stereo	
• Signal to noise ratio, 65 dBf, mono/stereo	
• Total harmonic distortion, 65 dBf,1 kHz, mono/stereo	
• Frequency response, 30 Hz~15 kHz	$\pm 3 \text{ dB}$
Stereo separation, 1 kHz	
Capture ratio	
• IF rejection ratio	
■ AM TUNER SECTION	
Tuning frequency range	
Usable sensitivity	
• Signal to noise ratio, 80 dB/m	
Selectivity	
GENERAL	
Power supply	AC 120 V 60 Hz
Power consumption	
Switched AC outlet	
• Dimensions $(W \times H \times D)$	
• Weight (Net)	

Note: Design and specifications are subject to change without notice for improvements.



**RD-7103** AUDIO/VIDEO RECEIVER

5707-04734-001-0